

FIG. 1

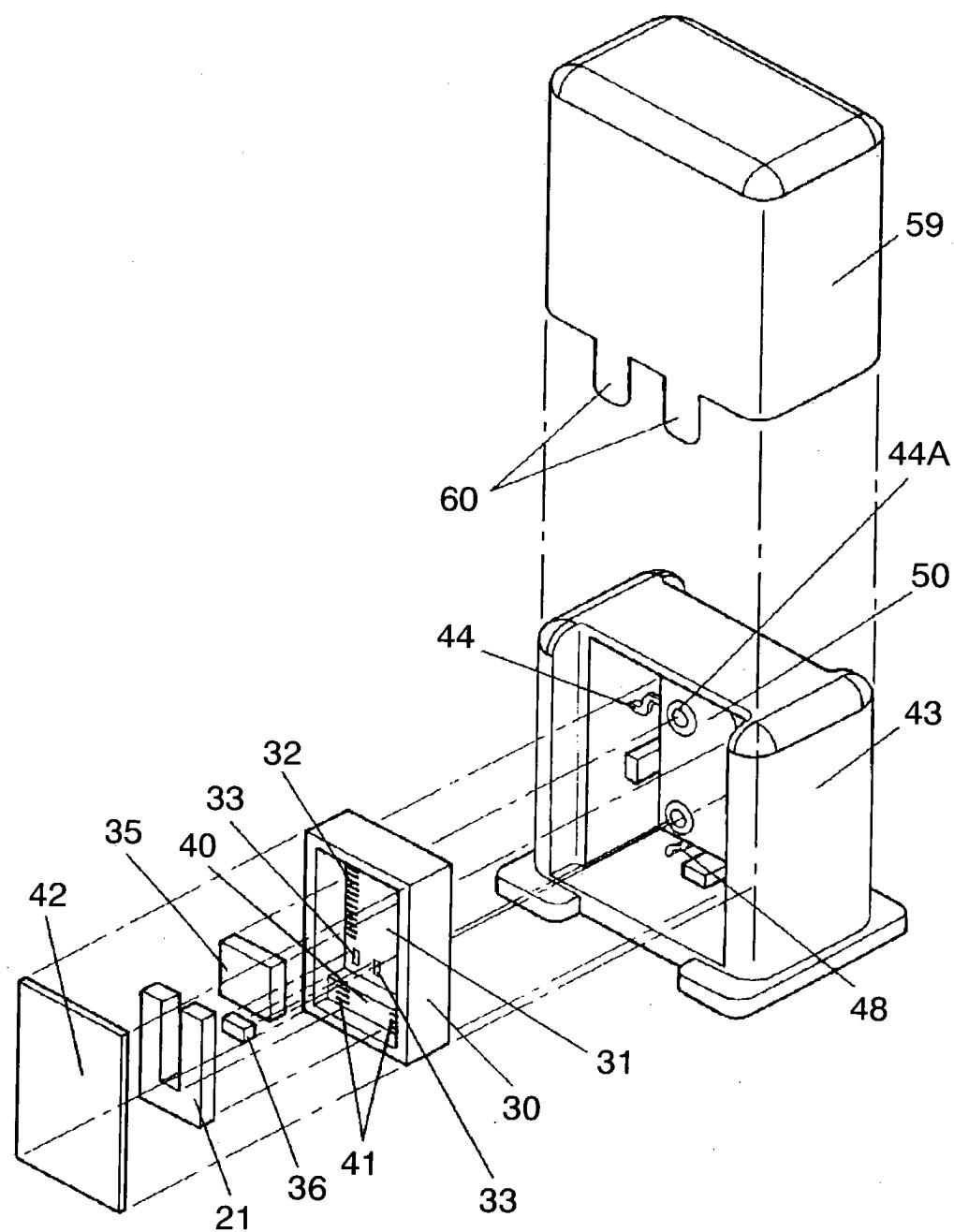


FIG. 2

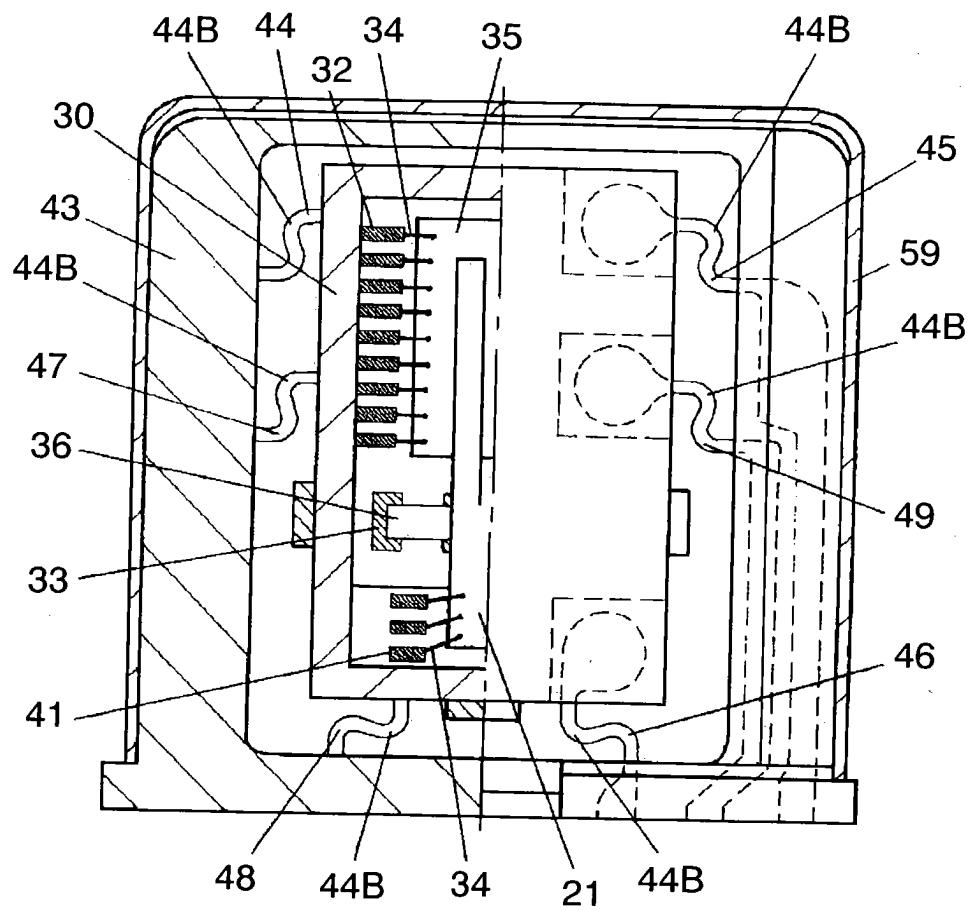


FIG. 3

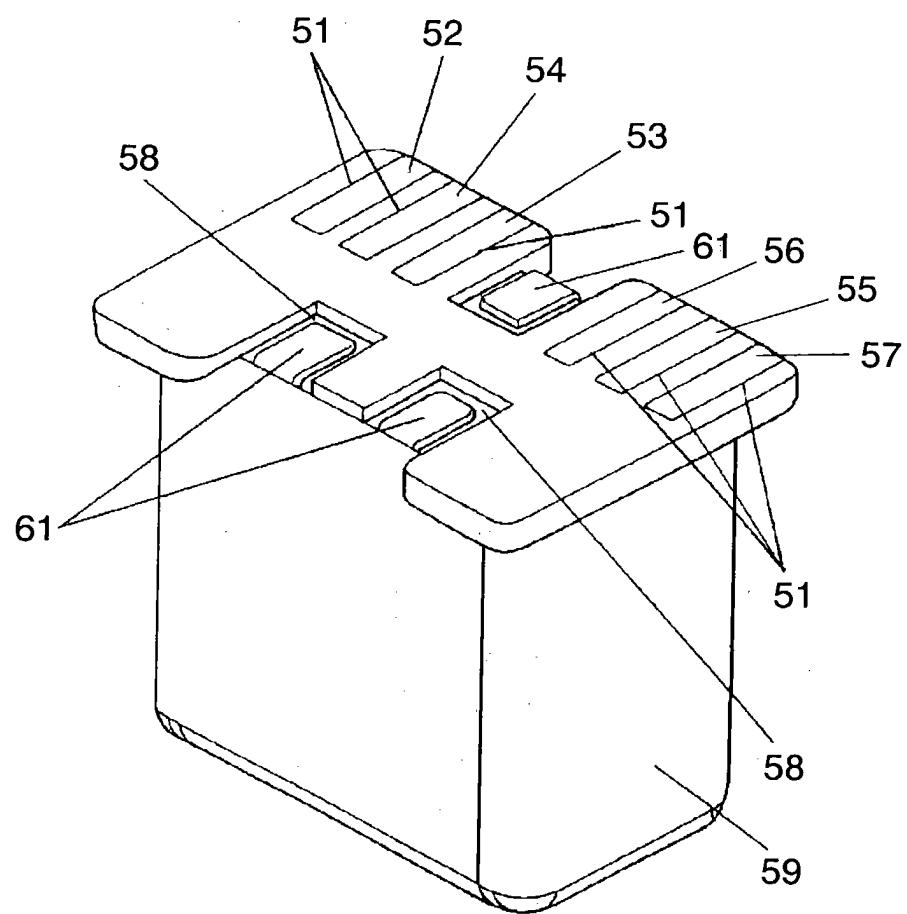


FIG. 4

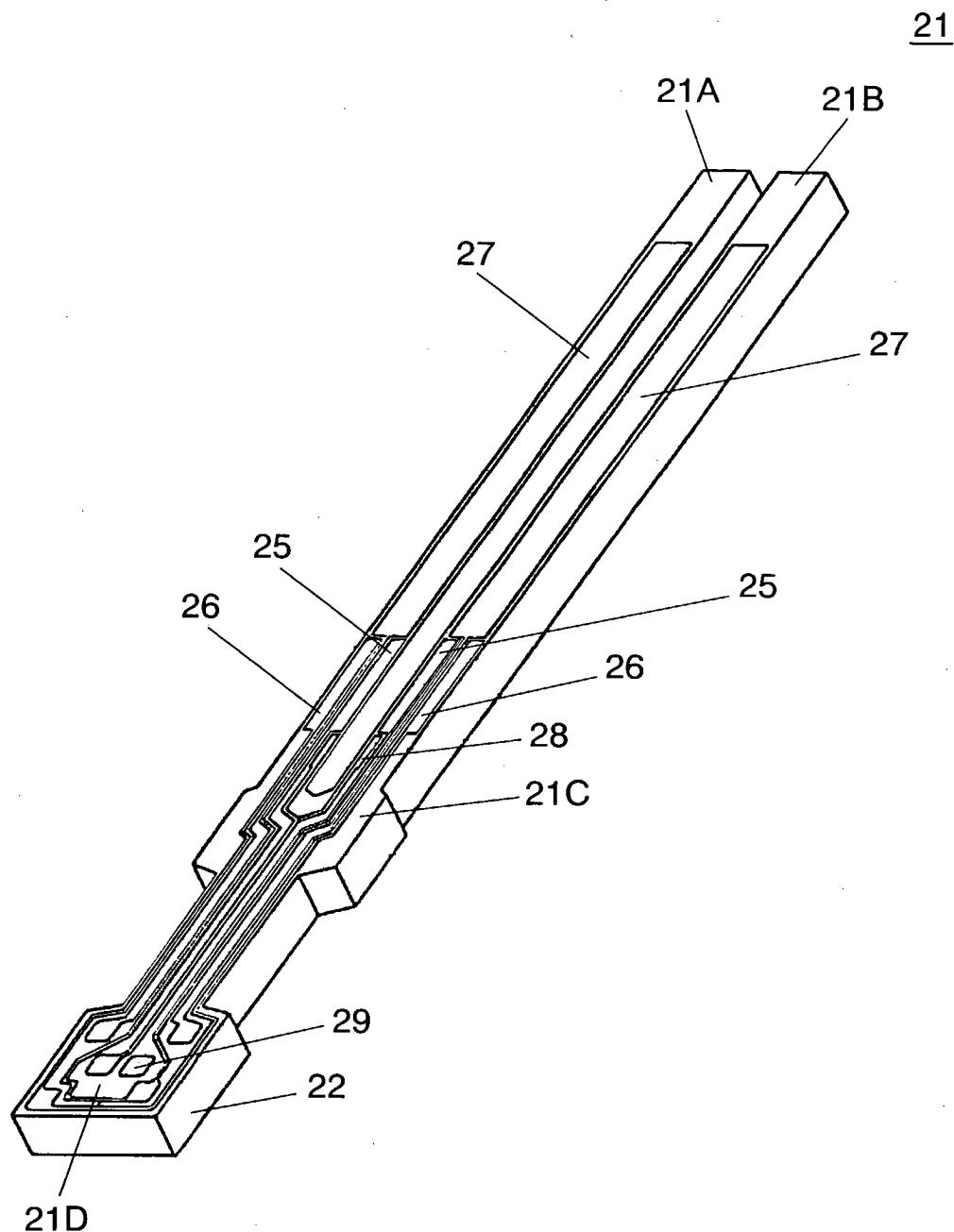


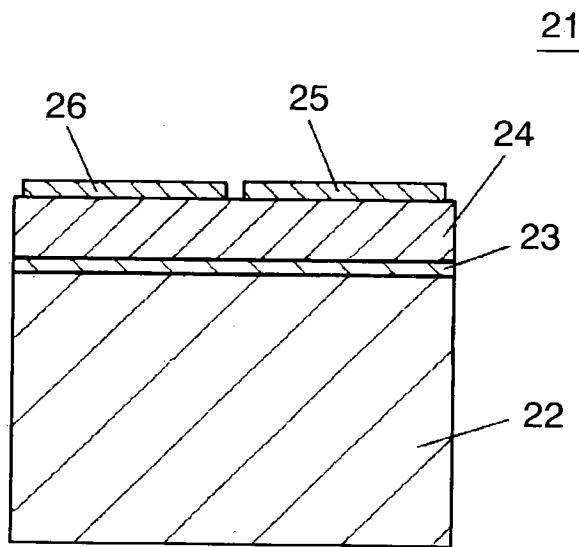
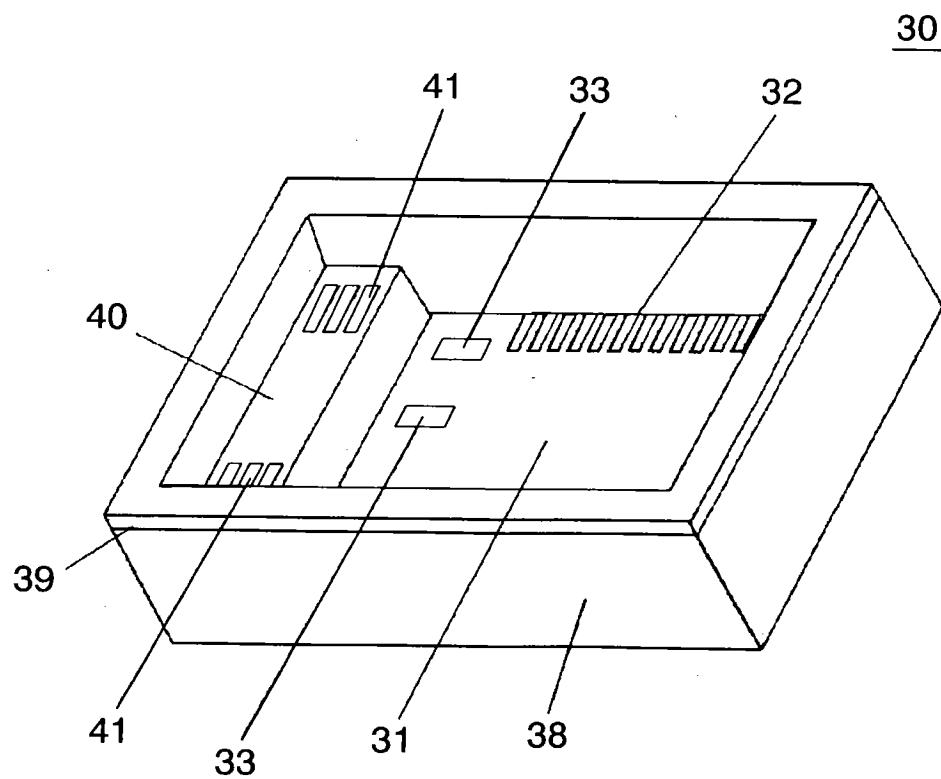
FIG. 5**FIG. 6**

FIG. 7

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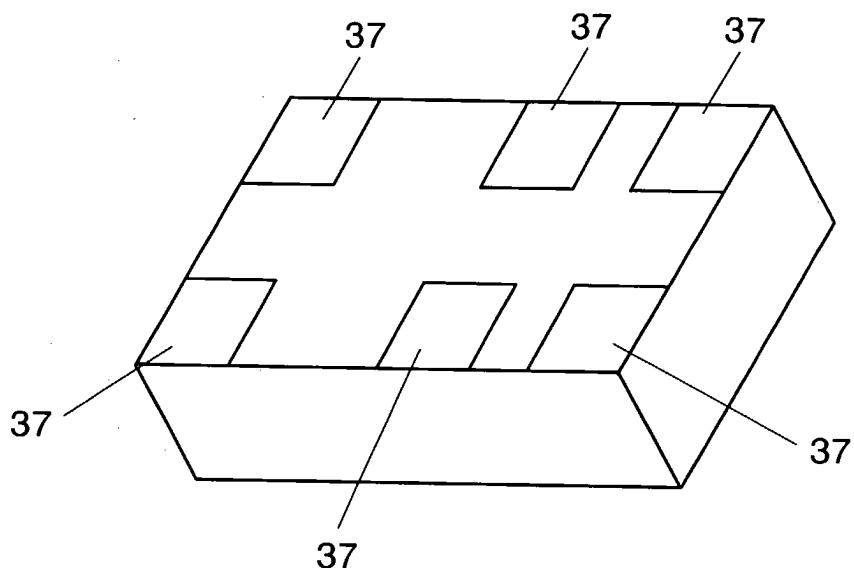


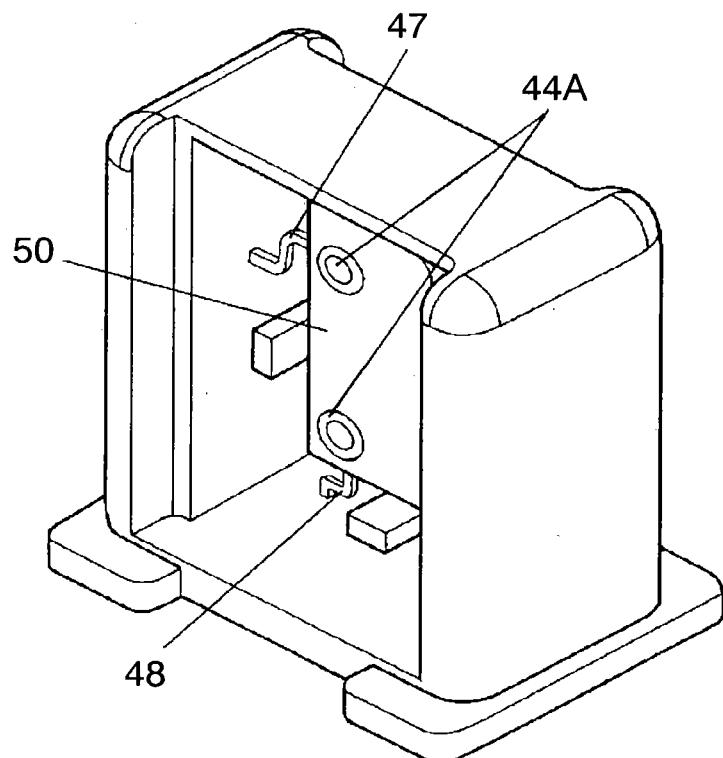
FIG. 843

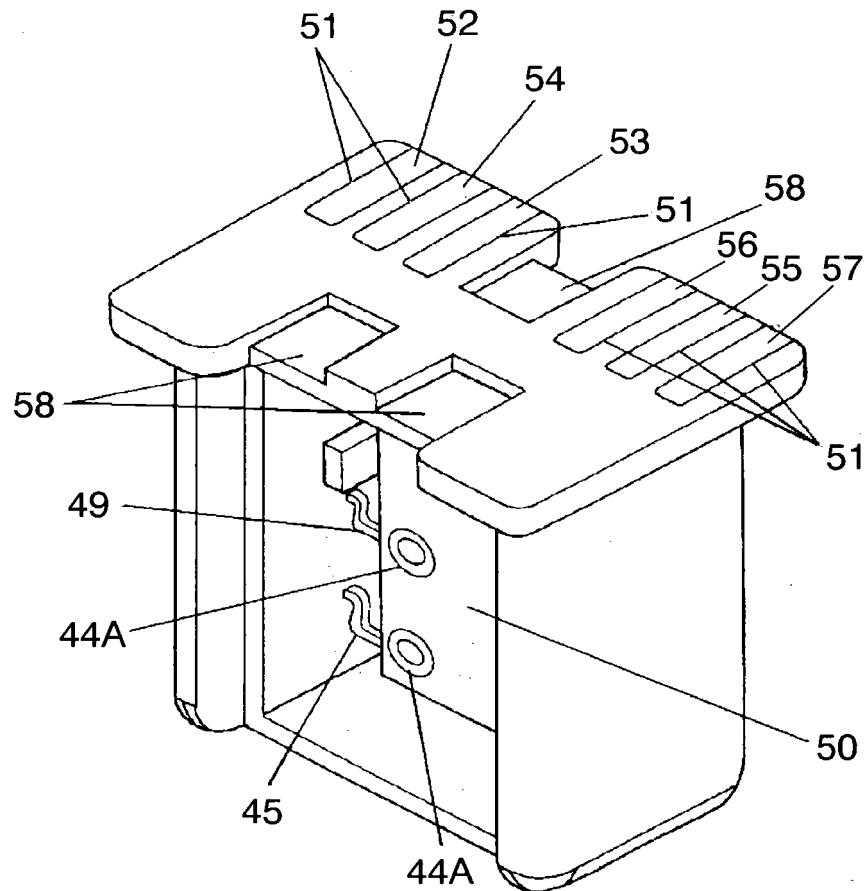
FIG. 943

FIG. 10A

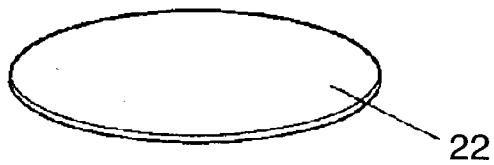


FIG. 10B

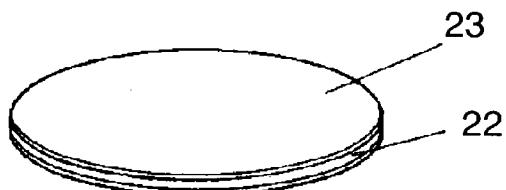


FIG. 10C

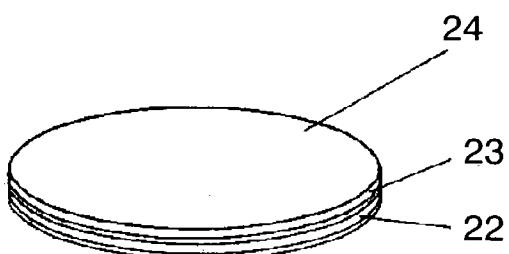


FIG. 10D

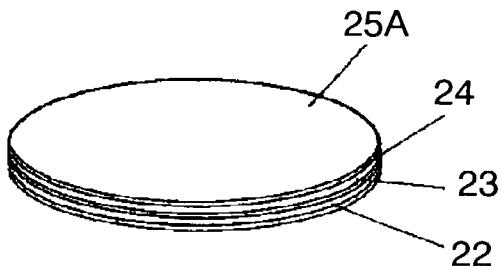


FIG. 10E



FIG. 10F

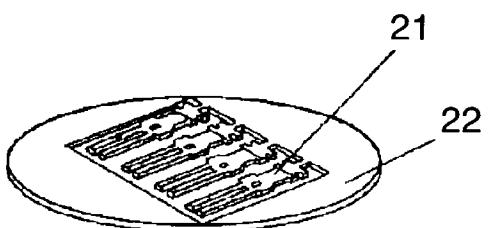


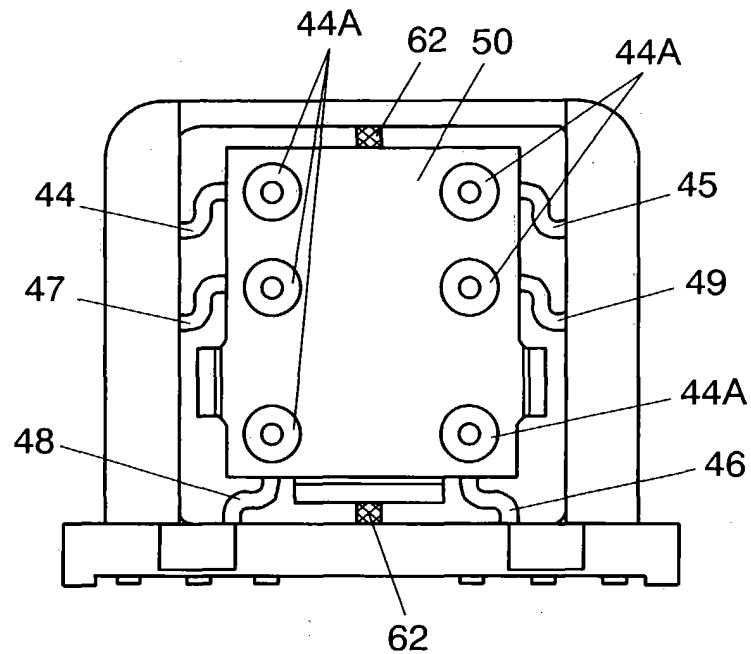
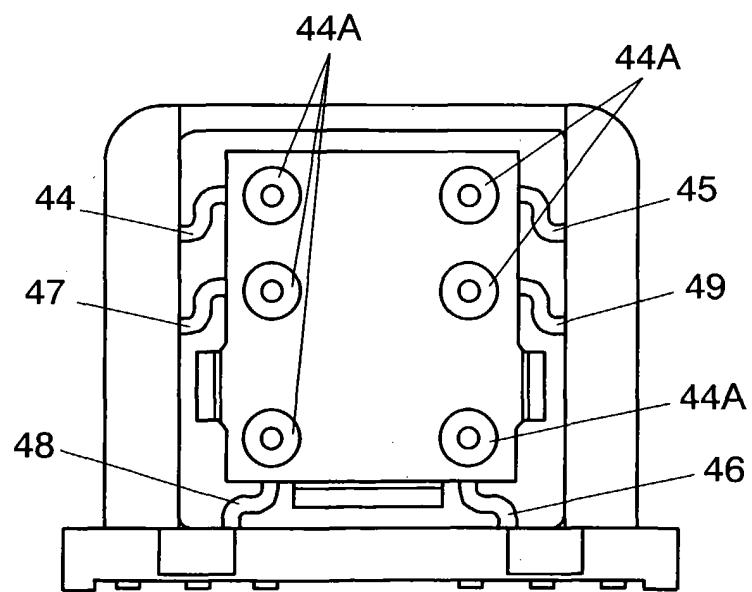
FIG. 11A**FIG. 11B**

FIG. 12

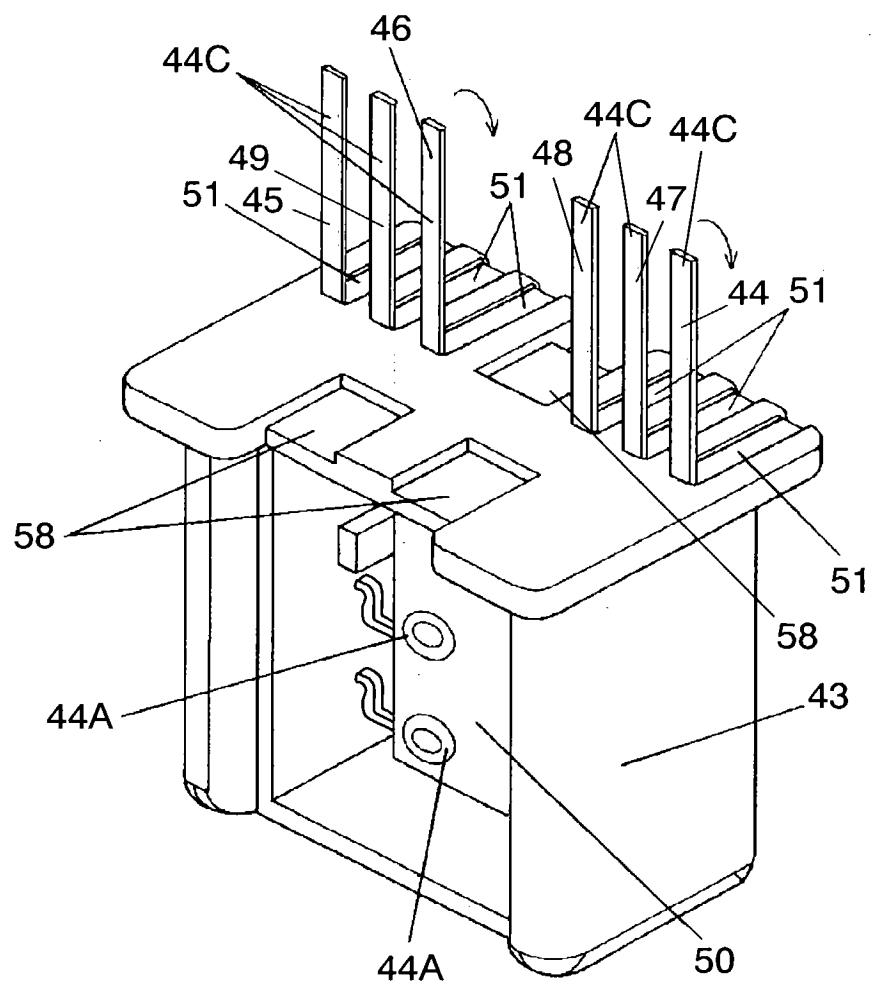


FIG. 13

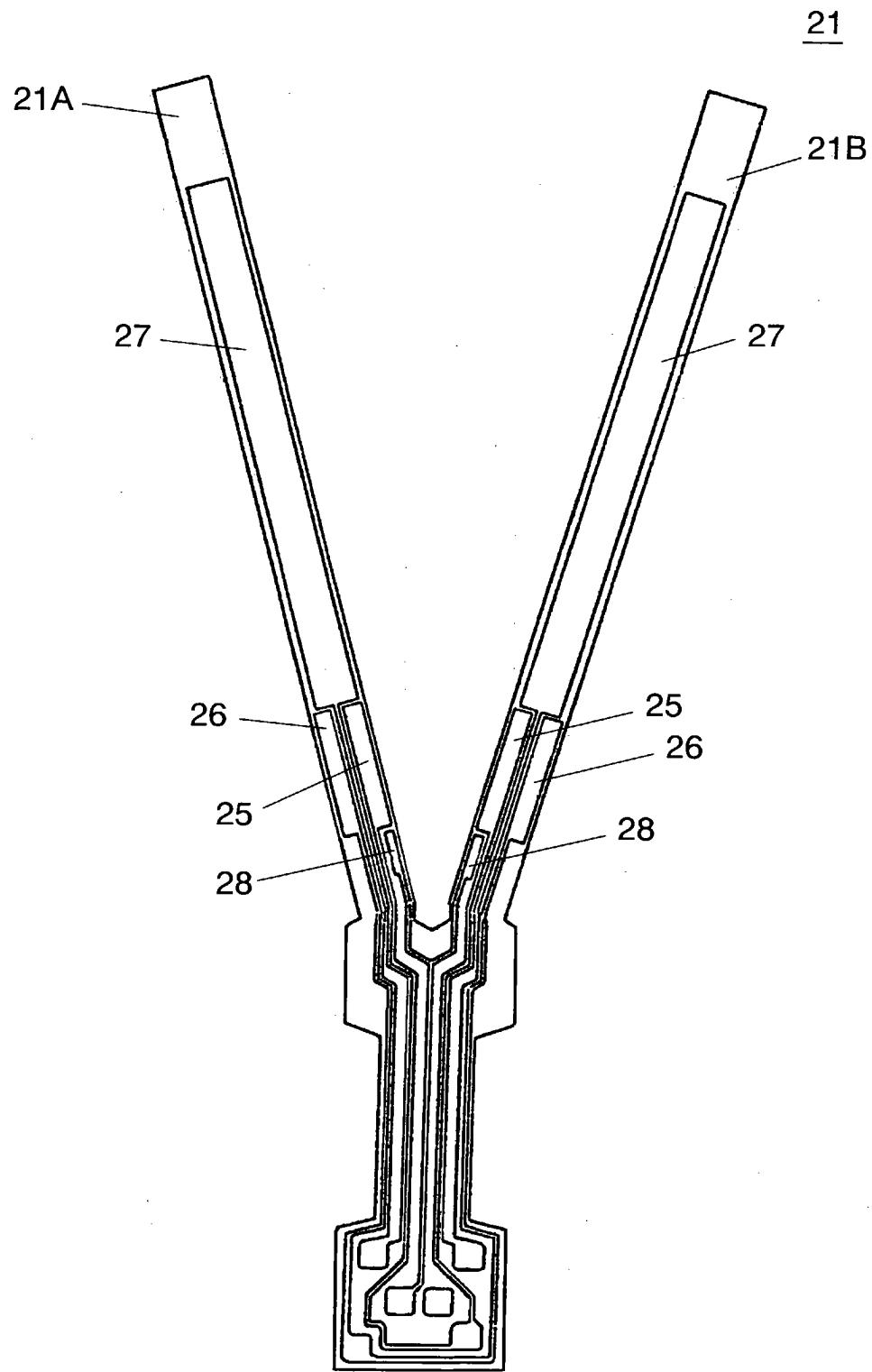


FIG. 14

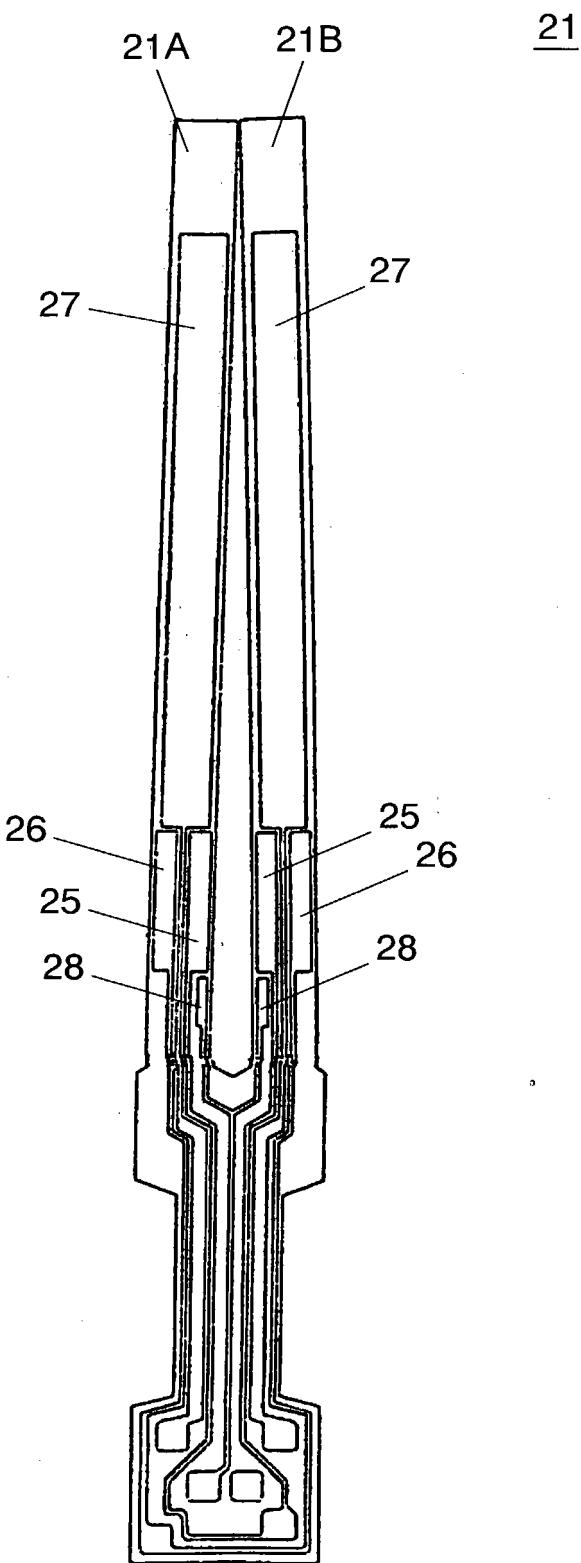


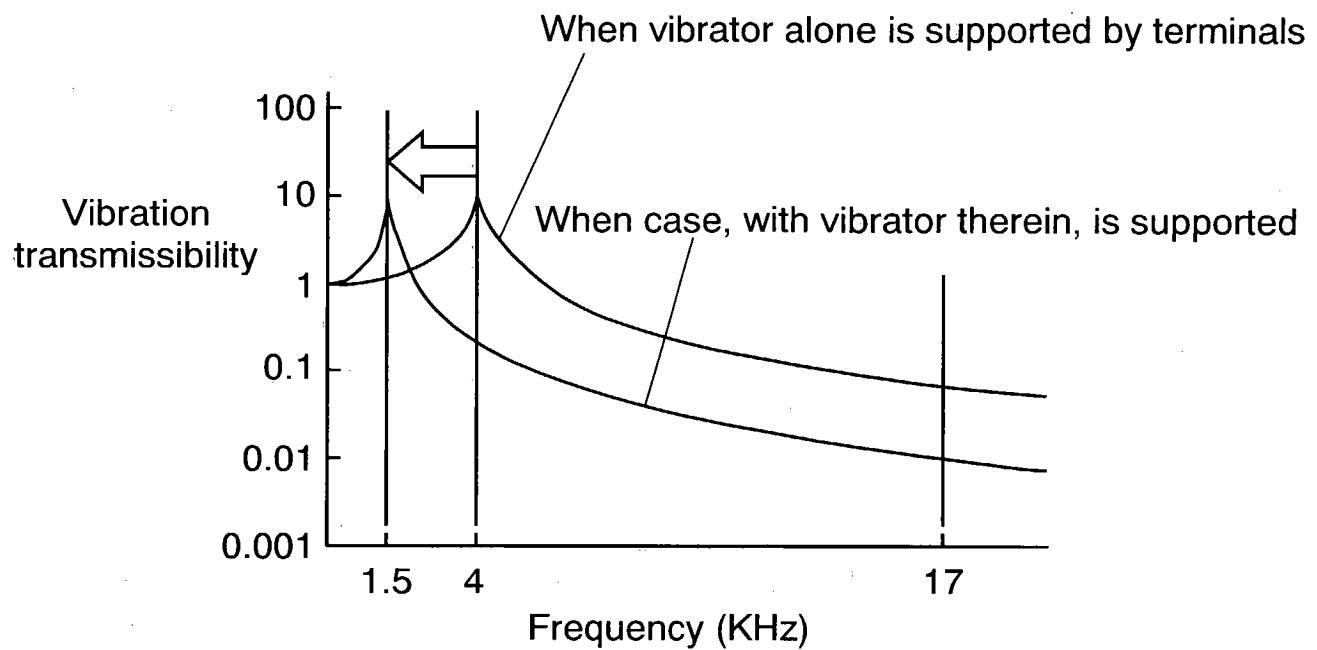
FIG. 15

FIG. 16

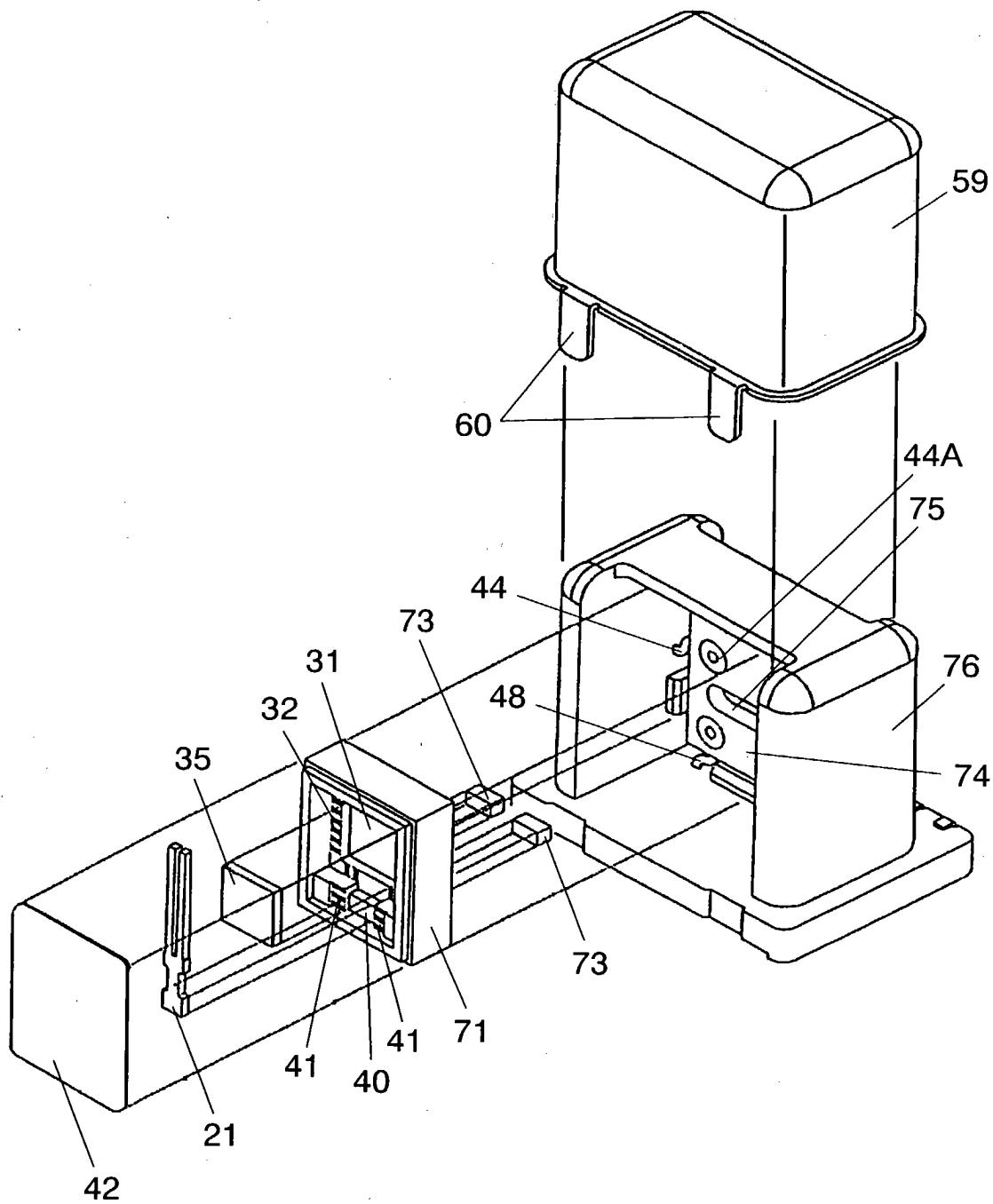


FIG. 17

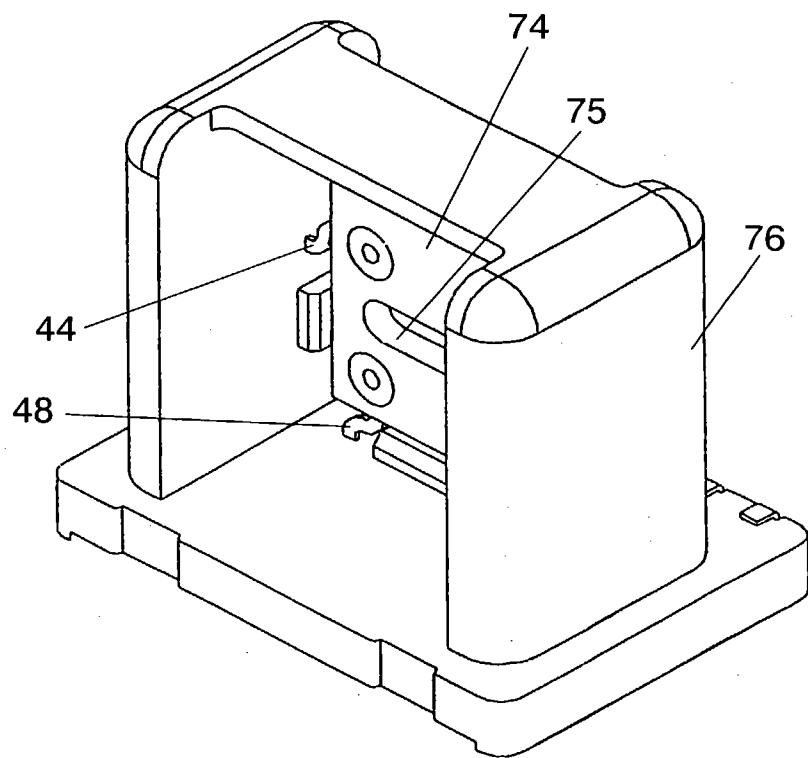


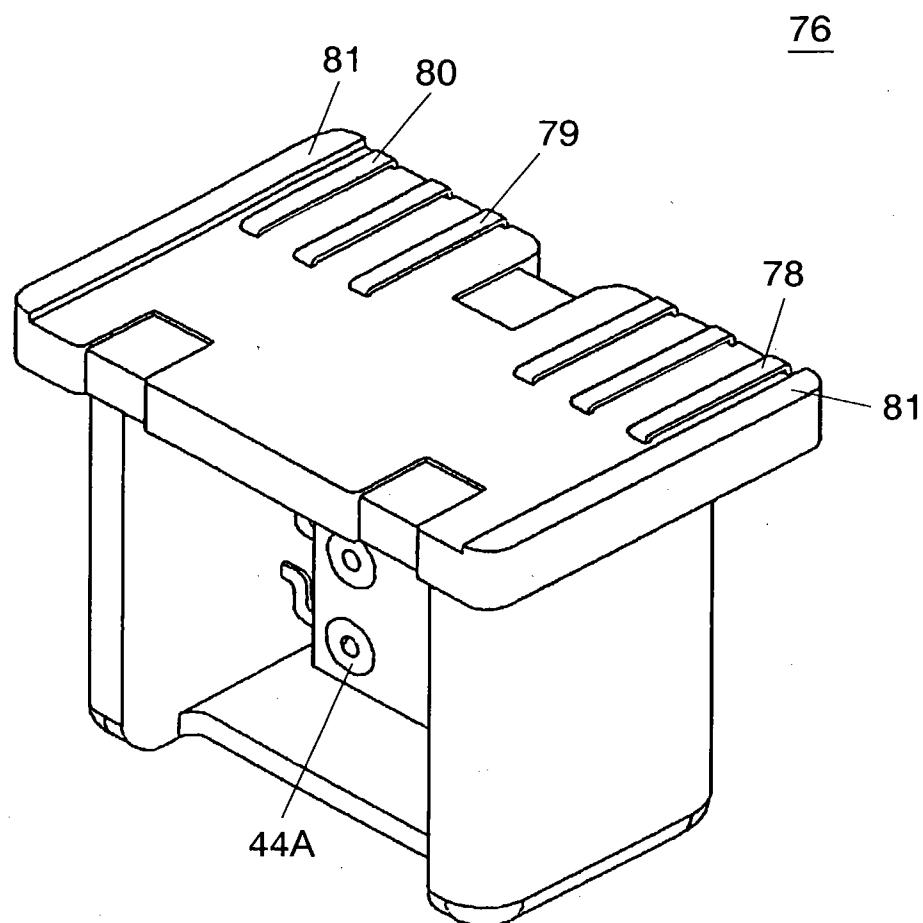
FIG. 18

FIG. 19

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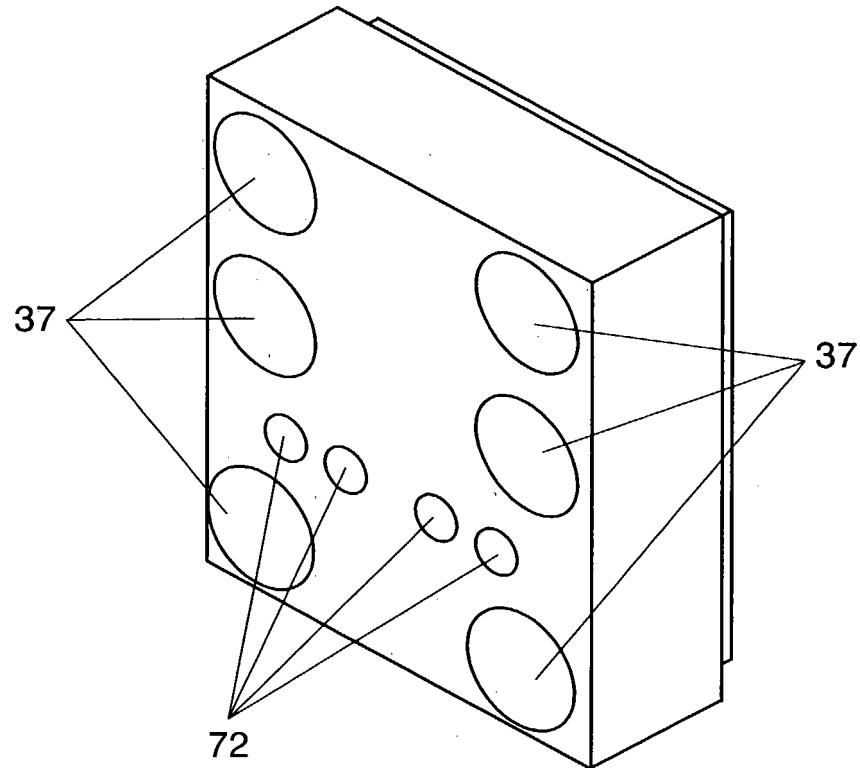


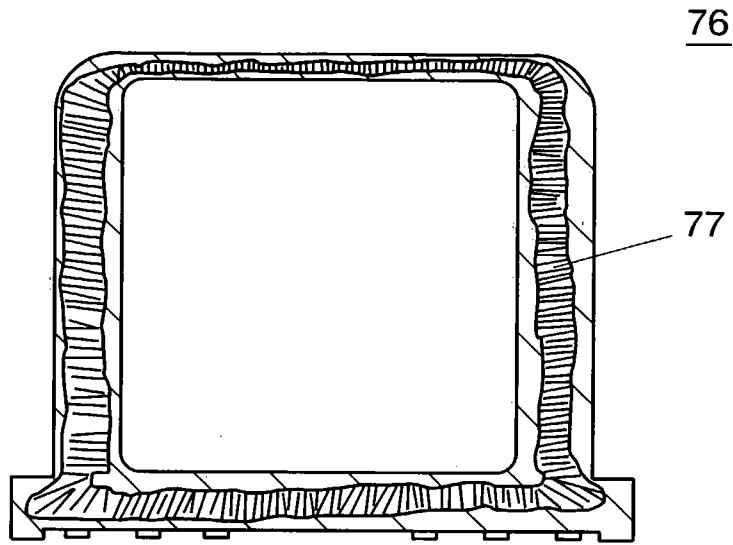
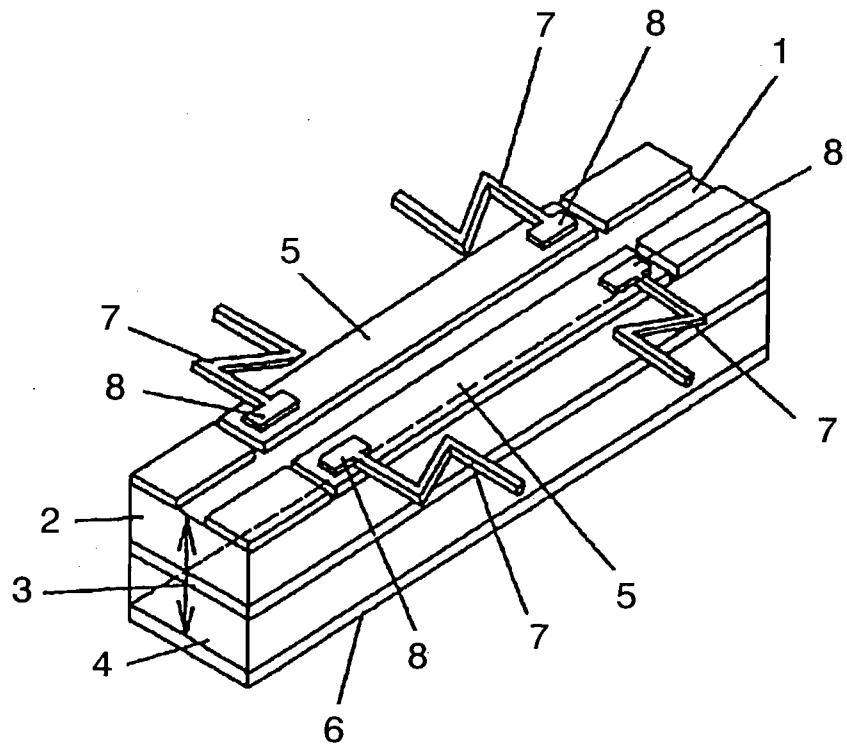
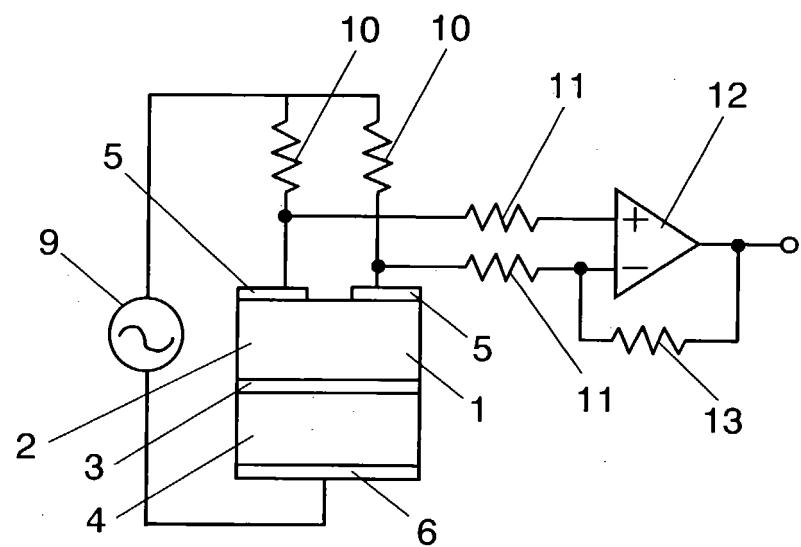
FIG. 20**FIG. 21**

FIG. 22



Reference numerals in the drawings:

- 1 Vibrator
- 2 First piezoelectric substrate
- 3 Electrode layer
- 4 Second piezoelectric substrate
- 5 Split electrode
- 6 Common electrode
- 7 Terminal
- 8 Widened portion
- 9 Oscillating circuit
- 10, 11, 13 Resistor
- 12 Differential amplifier
- 21 Vibrator
- 21A First arm portion
- 21B Second arm portion
- 21C Joint portion
- 22 Substrate
- 23 Common GND electrode
- 24 Piezoelectric layer
- 25 First driving electrode
- 26 Second driving electrode
- 27 Detecting electrode
- 28 Monitor electrode
- 29 GND electrode
- 30 Case
- 31 Multilayer circuit board
- 32 First wiring electrode
- 33 Second wiring electrode
- 34 Wire
- 35 IC
- 36 Capacitor
- 37 Case electrode
- 38 Side wall
- 39 Metallic frame
- 40 Stepped portion
- 41 Third wiring electrode

42	Lid
43	Containing portion
44	Power supply terminal
45	Output terminal
46	GND terminal
47	First adjustment terminal
48	Second adjustment terminal
49	Adjustment GND-terminal
50	Mount portion
51	Recess for electrode
52	Power supply electrode
53	GND electrode
54	Output electrode
55	First adjustment electrode
56	Second adjustment electrode
57	Adjustment GND-electrode
58	Recess
59	Cover
60	Engagement claw
61	GND potential connection portion
62	Connection portion
71	Case
72	Capacitor electrode
73	Capacitor
74	Mount portion
75	Hole
76	Containing portion
77	Laminar structured portion
78	Power supply electrode
79	GND electrode
80	Output electrode
81	Protruded portion